

AFOSR TR 96
0426

FINAL TECHNICAL REPORT

AFOSR Grant F49620-92-J-0425
Covering the Period 09/01/92 -01/31/96

**AASERT: MATHEMATICAL LIBRARY SOFTWARE FOR APPLICATIONS
OF PARALLEL SUPERCOMPUTERS**

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July 1996

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DTIC QUALITY INSPECTED 3

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REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
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1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE 07/31/96	3. REPORT TYPE AND DATES COVERED Final Technical 09/01/92-01/31/96		
4. TITLE AND SUBTITLE AASERT: Mathematical Library Software for Applications of Parallel Supercomputers		5. FUNDING NUMBERS G - F49620-92-J-0425 PR - 9821/00		
6. AUTHOR(S) Steven A. Orszag				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Princeton University Department of Mechanical & Aerospace Engineering Princeton, NJ 08544		8. PERFORMING ORGANIZATION REPORT NUMBER		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) AFOSR/NM 110 Duncan Avenue Room B115 Bolling AFB, DC 20332-8080 Attn: Dr. Arje Nachman		10. SPONSORING/MONITORING AGENCY REPORT NUMBER		
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION / AVAILABILITY STATEMENT unlimited		12b. DISTRIBUTION CODE		
13. ABSTRACT (Maximum 200 words) This work involved a broad spectrum of applications of parallel computers to scientific computing. The students who worked on this project developed advanced methods for the direct numerical simulation of near-wall turbulence, techniques for large-scale data base analysis of turbulent flows, and advanced methods for the solution of wave propagation problems in complex media. All these applications involve substantial computer memory, data access, and in many cases computer resources that would not be accessible except through parallel processing. The details of the work performed is presented in the publications and theses of the students supported.				
14. SUBJECT TERMS parallel processing, near-wall turbulence, wave propagation problems			15. NUMBER OF PAGES 3	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT SAR	

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Technical Summary:

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Degrees Awarded: Catherine Crawford, MSE, January 1994
Catherine Crawford, Ph.D., June 1996
Carl Delo, Ph.D., June 1996
Mark Zagarola, Ph.D., June 1996

Publications/Reports:

"Direct Numerical Simulation of Near-Wall Turbulence: Passive and Active Control," Catherine Crawford, Ph.D. Dissertation #2061-T, Mechanical & Aerospace Engineering Department, Princeton University, June 1996.

"Volumetric Analysis of a Low Reynolds Number Turbulent Boundary Layer," Carl Delo, Ph.D. Dissertation #2038-T, Mechanical & Aerospace Engineering Department, Princeton University, June 1996.

"Mean-Flow Scaling of Turbulent Pipe Flow," Mark Zagarola, Ph.D. Dissertation #2053-T, Mechanical & Aerospace Engineering Department, Princeton University, June 1996.

"The Structure and Statistics of Turbulent Flow Over Riblets," Catherine Crawford, MSE Dissertation #1989-T, Mechanical & Aerospace Engineering Department, Princeton University, January 1994.

"Structure and Statistics of Turbulent Flow Over Riblets," R. D. Henderson, C. H. Crawford, and G. E. Karniadakis, AIAA Paper #93-0548, 31st AIAA Aerospace Sciences Meeting, Reno, Nevada, 11-14 January 1993.